

LangChain in LLM

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- Google Colab:
<https://colab.research.google.com/drive/1Kqo9m6tL5gIXGNFzYpXct6Vocjfwpbug?usp=sharing>

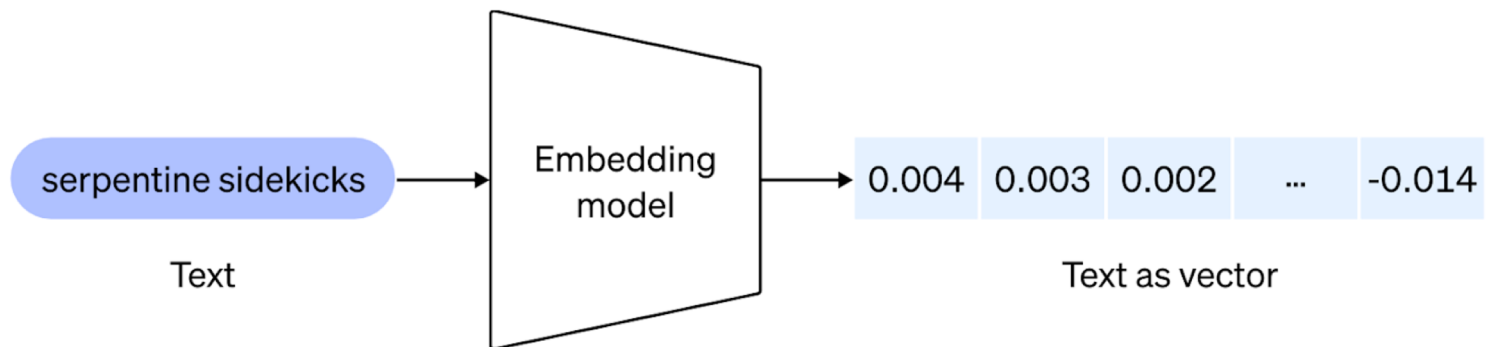
LangChain

LangChain	
What it is	A programming language platform for building AI applications that use LLMs
What it does	Helps developers customize, improve accuracy, and make information generated by LLMs more relevant
How it works	Combines LLMs with other components to create NLP applications
What it can be used for	Building chatbots, virtual agents, intelligent search, question-answering, and summarization services
Features	Centralized development environment, module-based approach, ability to compare prompts and foundation models, ability to use multiple LLMs in a program
Languages	Available in Python, JavaScript, and TypeScript

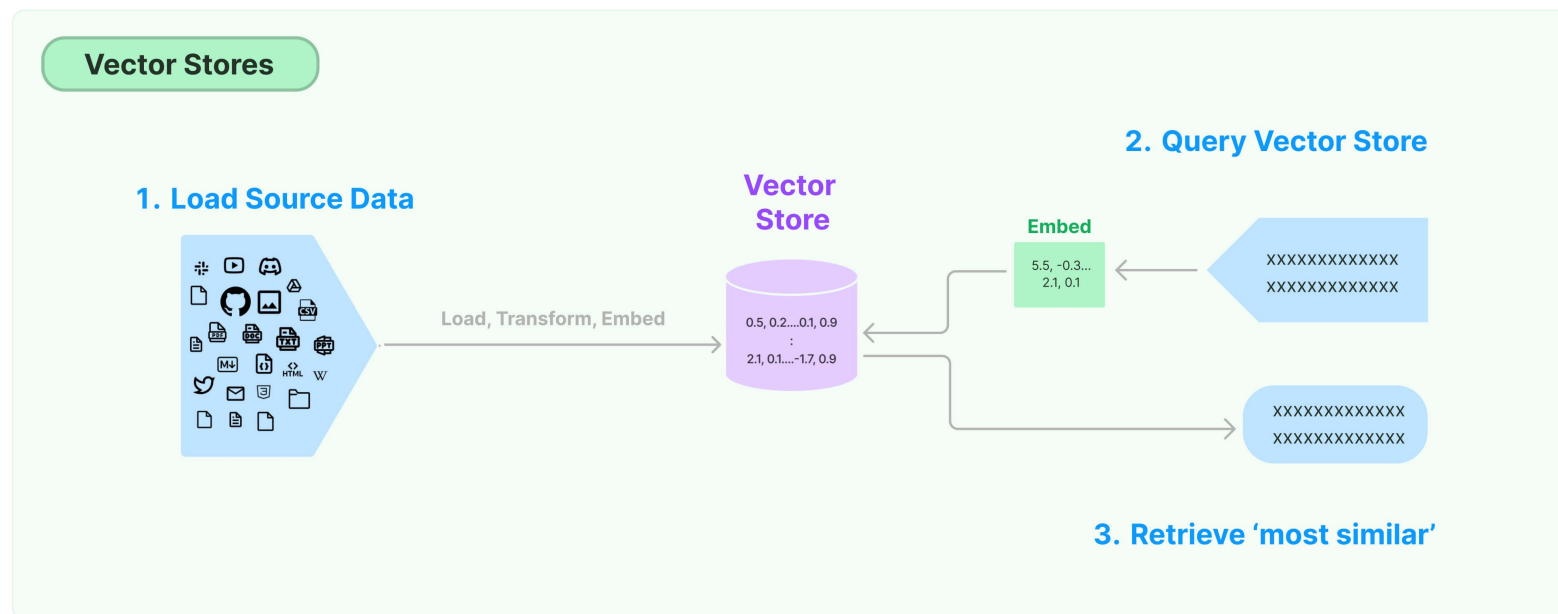
- **Models:** Integrates various language and vector models.
- **Prompts:** Provides instructions to the model.
- **Indexes:** Enables data retrieval functions.
- **Chains:** Combines components for end-to-end applications.

Question and Answer

- Embedding Models



•Vector stores



Evaluation

- Building applications with language models involves many moving parts. One of the most critical components is ensuring that the outcomes produced by your models are **reliable and useful** across a broad array of inputs, and that they work well with your application's other software components.

Agent

- The core idea of agents is to use a language model to choose a sequence of actions to take. In chains, a sequence of actions is hardcoded (in code). In agents, a language model is used as a reasoning engine to determine which actions to take and in which order.
- Tools are functions that an agent can invoke.
- Giving the agent access to the right tools; Describing the tools in a way that is most helpful to the agent

Resources

- <https://learn.deeplearning.ai/courses/langchain/lesson/1/introduction>
- https://python.langchain.com/v0.1/docs/get_started/introduction